

Title (en)
Process for manufacturing an embossing cylinder

Title (de)
Verfahren zur Herstellung eines Prägezyinders

Title (fr)
Procédé pour la production d'un cylindre d'emboutissage

Publication
EP 0886185 A3 19990901 (DE)

Application
EP 98109121 A 19980519

Priority
DE 19721524 A 19970522

Abstract (en)
[origin: JPH10333534A] PROBLEM TO BE SOLVED: To easily produce an embossing cylinder for embossing an optical diffraction foil by exposing a mantle face coated with a photoresist to form an image on the photoresist, developing the image, and treating the photoresist with a silicon org. compd. while tempering and irradiating the resist with UV rays. SOLUTION: A mantle face of a cylinder coated with a photoresist is exposed to form an image on the photoresist, and the image is developed to form a relief surface structure. After the developing process, the photoresist is treated with a silicon org. compd. while tempered and irradiated with UV rays. The photoresist is preferably developed in a wet alkaline developer or a water-contg. alkaline developer. Hexamethyldisiloxane is preferably used as the silicon org. compd., and the photoresist surface is exposed to floor light of UV rays and tempered at 100 to 160 deg.C while the reaction with the silicon org. compd. proceeds.

IPC 1-7
G03F 7/40; **G03C 9/00**; **G03H 1/00**

IPC 8 full level
G03F 7/38 (2006.01); **B41C 1/10** (2006.01); **G03F 7/00** (2006.01); **G03F 7/40** (2006.01); **G03H 1/02** (2006.01); **G03H 1/04** (2006.01); **G03H 1/18** (2006.01); **G03H 1/20** (2006.01)

CPC (source: EP)
G03F 7/001 (2013.01); **G03F 7/405** (2013.01); **G03H 1/028** (2013.01)

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